

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A hard disk drive enclosure, comprising:

a first group of current sharing power supplies ~~one or more power sources~~ implementing a first power domain;

a first plurality of elements in the first power domain powered by the first group of current sharing power sources supplies, wherein the first plurality of elements includes a first plurality of hard disk drives;

a second group of current sharing power supplies ~~one or more power sources~~ implementing a second power domain; and

a second plurality of elements in the second power domain powered by the second group of current sharing power sources supplies, wherein the second plurality of elements includes a second plurality of hard disk drives.

Claims 2 to 4 (canceled).

Claim 5 (currently amended): The hard disk drive enclosure of claim 1, further comprising:

a third plurality of elements in a shared power domain;

~~a first voltage power circuit coupled to the first group of current sharing power sources supplies and the second group of current sharing power sources, the first voltage circuit operable to generate a first voltage supplies to provide a shared power to the third plurality of elements, and~~

~~a second voltage circuit coupled to the first group of power sources and the second group of power sources, the second voltage circuit operable to generate a second voltage.~~

Claim 6 (canceled).

Claim 7 (currently amended): The hard disk drive enclosure of claim 5, wherein the first voltage power circuit comprises:

a first ~~diode-connected~~ fuse having an input terminal coupled to the first group of current sharing power sources supplies;

a second ~~diode-connected~~ fuse having an input terminal coupled to the second group of current sharing power sources supplies;

a first ~~fused~~ diode coupled between an output terminal of the first diode ~~fuse~~ and an output terminal of the first ~~voltage~~ power circuit; and

a second ~~fused~~ diode coupled between an output terminal of the second diode ~~fuse~~ and the output terminal of the first ~~voltage~~ power circuit.

Claim 8 (canceled).

Claim 9 (currently amended): The hard disk drive enclosure of claim 8 5, wherein the first group of ~~one or more power sources~~ supplies further comprises at least one backup ~~batter~~ battery.

Claim 10 (currently amended): A hard disk drive enclosure, comprising:

a first plurality of elements including a first plurality of hard disk drives;

a second plurality of elements including a second plurality of hard disk drives;

a third plurality of elements;

a fourth plurality of elements;

a first group of ~~one or more power sources~~ current sharing power supplies powering the first plurality of elements;

a second group of ~~one or more~~ current sharing power supplies powering the second plurality of elements;

a first ~~voltage~~ power circuit operable to ~~generate~~ provide a first shared ~~voltage~~ power from the first and the second groups of ~~one or more~~ current sharing power supplies, the first shared ~~voltage~~ power being supplied to the first third plurality of elements; and

a second ~~voltage~~ power circuit operable to ~~generate~~ provide a second shared ~~voltage~~ power from the first and the second groups of ~~one or more~~ current sharing power sources supplies, the second shared second-voltage power being supplied to the second fourth plurality of elements.

Claim 11 (currently amended): The hard disk drive enclosure of claim 10, wherein the first ~~voltage~~ power circuit and the second ~~voltage~~ power circuit are similarly implemented.

Claim 12 (currently amended): The hard disk drive enclosure of claim 10; wherein:

the first ~~voltage~~ power circuit comprises:

a first ~~diode-connected~~ fuse having an input terminal coupled to the first group of current sharing power sources supplies;

a second ~~diode-connected~~ fuse having an input terminal coupled to the second group of current sharing power sources supplies;

a first fuse diode coupled between an output terminal of the first diode fuse and an output terminal of the first voltage circuit; and

a second fuse diode coupled between an output terminal of the second diode fuse and the output terminal of the first voltage circuit;

the second power circuit comprises:

a third fuse having an input terminal coupled to the first group of current sharing power supplies;

a fourth fuse having an input terminal coupled to the second group of current sharing power supplies;

a third diode coupled between an output of the third fuse and an output terminal of the second voltage circuit; and

a fourth diode coupled between an output of the fourth fuse and the output terminal of the second voltage circuit.

Claim 13 (currently amended): The hard disk drive enclosure of claim 10, wherein the ~~first and the second~~ third and the fourth pluralities of elements each includes at least one of a transceiver, a repeater, a memory, and an enclosure controller.

Claim 14 (currently amended): The hard disk drive enclosure of claim 10, wherein the ~~first and the second~~ third and the fourth pluralities of elements each includes at least one of a backplane controller, a port bypass circuit, a temperature sensor, and a memory.

Claim 15 (new): The hard disk drive enclosure of claim 5, wherein the third plurality of elements includes at least one of a transceiver, a repeater, a memory, and an enclosure controller.

Claim 16 (new): The hard disk drive enclosure of claim 7, wherein the third plurality of elements includes at least one of a temperature sensor, a memory, and a backplane controller.

Claim 17 (new): The hard disk drive enclosure of claim 16, wherein the backplane controller is coupled to a port bypass circuit, the port bypass circuit operable to bypass one of the first plurality of hard disk drives.

Claim 18 (new): The hard disk drive enclosure of claim 17, further comprising:

a fourth plurality of elements in another shared power domain;

another power circuit coupled to the first group of current sharing power supplies and the second group of current sharing power supplies to provide another shared power to the fourth plurality of elements, the another power circuit comprising:

a third fuse having an input terminal coupled to the first group of current sharing power supplies;

a fourth fuse having an input terminal coupled to the second group of current sharing power supplies;

a third diode coupled between an output of the third fuse and an output terminal of the second power circuit; and

a fourth diode coupled between an output of the fourth fuse and the output terminal of the second power circuit.

Claim 19 (new): The hard disk drive enclosure of claim 18, wherein the fourth plurality of elements includes at least one of another temperature sensor, another memory, and another backplane controller.

Claim 20 (new): The hard disk drive enclosure of claim 19, wherein the another backplane controller is coupled to another port bypass circuit, the another port bypass circuit operable to bypass one of the second plurality of hard disk drives.

Claim 21 (new): The hard disk drive enclosure of claim 18, wherein the fourth plurality of elements includes at least one of another transceiver, another repeater, another memory, and another enclosure controller.